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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE APPLICANT Shunji ARAI FILING DATE February 22, 2002 U.S. PATENT DOCUMENTS U.S. PATENT DOCUMENTS DOCUMENT NUMBER DATE NAME CLASS SUBCLASS FAPRO 5,138,655 08/11/1992 Takashima, et al. 379 157	
U.S. PATENT DOCUMENTS U.S. PATENT DOCUMENTS OCCUMENT INITIAL OCCUMENT NUMBER DATE DATE NAME GROUP 2681 GROUP 2681 GROUP 2681 GROUP 2681 GROUP 2681 GROUP 2681	
DOCUMENT NUMBER DATE NAME CLASS SUBCLASS FAPER	
DOCUMENT NUMBER DATE NAME CLASS SUBCLASS FAPER	
5,138,655 08/11/1992 Takashima, et al. 379 157	
Sγρ 5,517,551 05/14/1996 Arai 379 58	
Sγ 5,594,944 01/14/1997 Ogata, et al. 455 34.1	
4√) 5,602,910 02/11/1997 Tsutsui, et al. 379 212	
RECEIVED	
JUN 0 5 2002	
Technology Center 2600	
FOREIGN PATENT DOCUMENTS	
DOCUMENT DATE COUNTRY CLASS SUBCLASS YES OR ABS	10/
JP 10-242899 09/11/1998 Japan — Abst	act
JP 9-46293 02/14/1997 Japan — Abst	act
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)	
EXAMINER DATE CONSIDERED 05/10/04	